

The Nyle Systems Geyser CWM – Series product line is a high efficiency Water to Water Modular Heat Pump Water Heating System. Heat Pump Water Heaters provide the most efficient way to heat water, transferring energy from the available source water while saving up to 75% in costs when compared to electric water heaters.

In utilizing the water source models, we are cooling or pre-chilling the source water on one side while heating potable water on the other.

The CWM -Series are designed and manufactured in our state of the art facility located in Brewer, Maine. These units are designed for projects requiring a higher level of capacity and we offer various options to meet your larger application needs.

## Energy Efficiency

Performance is expressed in Coefficient of Performance (COP). In typical installations, the Geyser CWM -Series achieve Heating COPs ranging from 3-5, and combined Heating & Cooling COPs of 6-10. This means it creates 3-5 units of renewable heat from the source liquid for every 1 unit of electricity required for operation. This 300% to 500% efficiency compares with efficiencies of traditional water heaters of approximately 70% for gas and oil, to 90% for electric water heaters. The investment payback period is typically 1-3 years, dependent upon compared energy type and current prices.



## How does the GEYSER CWM-Series work?

The Geyser Heat Pump Water Heater captures heat from the source water and transfers that heat energy into a storage tank. In basic terms, Heat Pump Water Heaters move heat from where it is not needed, to where it can be more efficiently used. The Geyser CWM-Series provides low cost water heating and supplemental cooling that can be directed where needed.

## Suitable Applications

The Geyser CWM-Series range in capacity from 270 MBTUH to over 2,000 MBTUH, generating from 323 to 2,584 gallons of hot water per hour. All of the Nyle Geyser C-Series Heat Pumps can heat water efficiently up to 150°F and are ideally suited for Restaurants, Hotels, Hospitals, Schools, Military Housing, Apartment Buildings, Offices, Industrial Processing and any other type of environment where there exist the requirement for large quantities of hot water.

## Key Features and Benefits

- Leaving water temperatures up to 150°F allowing for consistent tank temperatures above 140°F
- Can be used as preheat system when higher temperatures are desired
- Typically operating at COPs from 3-5, meaning it is expected to save 60%-75% versus the costs of running an electric water heater
- The source water is being cooled allowing the load on AC systems to be reduced, further increasing the savings
- Painted aluminum as well as the optional stainless steel cabinet provides superior protection against corrosion. Coated coils are also standard on all units
- Our standard Double wall stainless steel heat exchanger allows for use with potable water
- Uses environmentally friendly R-134a refrigerant
- Programmable Logic Control (PLC) allows integration into your existing mechanical system

Model	Heating Capacity BTUH	Cooling Capacity BTUH	Heating COP	Cooling COP	Combined COP	Hot Water Flow Rate (GPM)	Source Water Flow Rate (GPM)
C270WM	277,100	210,800	4.8	3.8	8.6	50	50
C540WM	554,200	414,450	4.8	3.8	8.6	100	100
C810WM	831,300	632,500	4.8	3.8	8.6	150	150
C1080WM	1,108,400	843,350	4.8	3.8	8.6	200	200
C1350WM	1,385,500	1,054,200	4.8	3.8	8.6	250	250
C1620WM	1,662,600	1,265,000	4.8	3.8	8.6	300	300
C1890WM	1,939,700	1,475,600	4.8	3.8	8.6	350	350
C2160WM	2,216,800	1,725,600	4.8	3.8	8.6	400	400

Performance based on 80°F source water temperature, 50°F entering water temperature, and 150°F leaving water temperature

Standard voltage on CWM Series Models 208/230V 3-Phase 60Hz

Other power options are available upon request.

**Note:** In view of ongoing product improvements, design and specification are subject to change without notice. Nyle Systems can accept no responsibility for possible errors in catalogs, brochures or any other printed material.